Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PICA-16259	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date (day/month/ye	ear) Priority date (day/month/year)			
PCT/JP2004/006973	17.05.2004	16.05.2003			
International Patent Classification (IPC) or national classification and IPC					
Applicant INTELLIGENT COSMOS RESEARCH INSTITUTE					
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 					
2. This REPORT consists of a total of	5 sheets,	including this cover sheet.			
3. This report is also accompanied by A	NNEXES, comprising:				
a. (sent to the applicant and	to the International Bureau) a total of	5 sheets, as follows:			
sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	Bureau only) a total of (indicate type an	d number of electronic carrier(s))			
, containing a sequence listing and/or tables					
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relati	4. This report contains indications relating to the following items:				
Box No. I Basis of the	report				
Box No. II Priority					
Box No. III Non-establi	shment of opinion with regard to novel	y, inventive step and industrial applicability			
Box No. IV Lack of uni	ty of invention				
2. V DOX 1.0. V	tatement under Article 35(2) with regard dexplanations supporting such statement	to novelty, inventive step or industrial applicability;			
Box No. VI Certain doc	uments cited				
Box No. VII Certain defe	ects in the international application				
Box No. VIII Certain obs	ervations on the international applicatio	n			
Date of submission of the demand	Date of complete	ion of this report			
Name and mailing address of the IPEA/JP	Authorized office	cer			
Facsimile No.	Telephone No.				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/006973

Box	No. I	Basis of the report	
1.		regard to the language, this report is based on the international ated under this item.	l application in the language in which it was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purpose international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or	æs of:
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): the international application as originally filed/furnished the description:		
			as originally filed/furnished received by this Authority on received by this Authority on
	\boxtimes	the claims: nos. 4,7,8,10,11,13-20 nos.*	as originally filed/furnished as amended (together with any statement) under Article 19
			received by this Authority on
	\boxtimes	sheets*	as originally filed/furnished
		a sequence listing and/or any related table(s) – see Supplement	received by this Authority on
3.		the sequence listing (specify):	
4.		they have been considered to go beyond the disclosure as filed the description, pages the claims, nos. the drawings, sheets/figs	
*	If iter	m 4 applies, some or all of those sheets may be marked "super	rseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/006973

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement			
	Novelty (N)	Claims 1-20 YES Claims NO		
	Inventive step (IS)	Claims 15-17 YES Claims 1-14, 18-20 NO		
	Industrial applicability (IA)	Claims 1-20 YES Claims NO		
2.	2. Citations and explanations (Rule 70.7)			
	Ju	2001-160703 A (Murata Mfg. Co., Ltd.), 12 ne 2001, entire text and fig. 1 to 11 amily: none)		
	Document 2: JP 20	2001-217332 A (Hitachi, Ltd.), 10 August 01, entire text and fig. 1 to 12 (Family: ne)		
	20	2001-7613 A (Tokai University), 12 January 01, entire text and fig. 1 to 15 (Family: ne)		
	YA Su GH El	Shi KUROKI, Tsunehito KIMURA, Koichi MAOKA and Tsutomu YONEYAMA, "NRD Guide- ichoku Strip Senro Henkanki wo Mochiita 60 z Tai T-bunki," 2002 Nen The Institute of ectronics, Information and Communication gineers Electronics Society Taikai, C-2- , 2002		
	YA Su GH In Co	Shi KUROKI, Tsunehito KIMURA, Koichi MAOKA, Tsutomu YONEYAMA, "NRD Guide- ichoku Strip Senro Henkanki wo Mochiita 60 z Tai T-bunki Kairo," 2003 Nen The stitute of Electronics, Information and mmunication Engineers Sogo Taikai, C-2-62, March 2003		

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- Document 6: JP 11-74708 A (Mitsubishi Electric Corp.), 16

 March 1999, entire text and fig. 1 to 7

 (Family: none)
- Document 7: JP 11-31548 A (Olympus Optical Co., Ltd.), 02 February 1999, paragraph [0035] and fig. 4 (Family: none)
- Document 8: JP 11-195444 A (AMP (Japan) Ltd.), 21 July 1999, paragraph [0023] and fig. 1 and 2 (Family: none)

The inventions set forth in claims 1 and 2 do not involve an inventive step in the light of documents 1 and 2. Document 1 discloses an up and down converter for an NRD guide and a coaxial line (therein, it is apparent that the conductor pattern (5) constitutes a coaxial line in the light of the fact that said conductor pattern (5) is surrounded by the conductive plates (1 and 2)). Meanwhile, up and down converters for coaxial lines and micro strip lines are well known, as disclosed in document 2 (fig. 2 and the like) for example; therefore, it would have been possible to arbitrarily mount a coaxial line/micro strip line converter to the abovementioned coaxial line in the invention that is disclosed in document 1, as necessary.

The invention set forth in claim 3 does not involve an inventive step in the light of documents 1 to 3. The feature of forming different types of circuits by combining dielectric lines and micro strip lines is merely a simple design matter that could have been configured by a person skilled in the art, as appropriate, as is apparent from document 3, for example, which discloses configurations for circuits wherein two

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dielectric lines are connected by means of micro strip lines that are disposed therebetween.

The invention set forth in claim 4 does not involve an inventive step in the light of documents 1 to 5. NRD guide/vertical strip line converters are well known, as disclosed in documents 4 and 5, etc.

The invention set forth in claim 5 does not involve an inventive step in the light of documents 1 to 6. The technical feature of providing a choke structure to a coaxial line/micro strip line converter is well known, as disclosed in document 6 for example. In addition, a person skilled in the art could arbitrarily select a location for the provision of the choke structure, as necessary.

The inventions set forth in claims 6 to 14 and 18 to 20 do not involve an inventive step in the light of documents 1 to 8. Documents 7 and 8 disclose a method for inserting and mounting coaxial lines within holes that have been formed in an insulating material, wherein an adhesive agent or the like is filled into the spaces between the insulating material and the coaxial lines so as to ensure that the lines are mounted within the insulating material with no empty spaces therebetween. In addition, the feature of using an adhesive agent in order to fill the empty spaces is well known, as is apparent from document 8 (paragraph [0023]), for example, which discloses the feature of using an adhesive agent in order to fill the empty spaces.

The inventions set forth in claims 15 to 17 are not disclosed in any of documents 1 to 8, and would not have been obvious to a person skilled in the art.